



20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(541) 383-9310

FAX 382-7588

Work Order #: M1 06081

CLIENT: BRISTOL		INVOICE TO: BRISTOL		TURNAROUND REQUEST in Business Days*			
REPORT TO: ANNE KRAHAWETTER				Organic & Inorganic Analyses			
ADDRESS: AMCHITKA ISLAND, AK				10 7 5 4 3 2 1 <1			
PHONE: 907-770-0974 FAX: 770-0975		P.O. NUMBER: 21090		STD. Petroleum Hydrocarbon Analyses			
PROJECT NAME: AMCHITKA		REQUESTED ANALYSES		5 4 3 2 1 <1			
PROJECT NUMBER: 21090				STD. OTHER Please Specify			
SAMPLED BY:				*Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME			MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMC4107SL	6.26.01 1340	✓	✓	S	2		
2. 01AMC4108SL	6.26.01 1345	✓	✓	S	2		
3. 01AMC4109SL	6.26.01 1350	✓	✓	S	2		
4. 01AMC4110SL	6.26.01 1355	✓	✓	S	2		
5. 01AMC4111SL	6.26.01 1400	✓	✓	S	2		
6. 01AMC4112SL	6.26.01 1405	✓	✓	S	2		
7. 01AMC4113SL	6.26.01 1410	✓	✓	S	2		
8. 01AMC4114SL	6.26.01 1415	✓	✓	S	2		
9. 01AMC4115SL	6.26.01 1420	✓	✓	S	2		
10. 01AMC4116SL	6.26.01 1425	✓	✓	S	2		
11. 01AMC4117SL	6.26.01 1430		✓	S	1		
12.							
13.							
14.							
15.							
RELINQUISHED BY: [Signature]		DATE: 6/26/01		RECEIVED BY: [Signature]		DATE: 6/26/01	
PRINT NAME: Charlie Marshall		FIRM: BRISTOL		PRINT NAME: Tim McKown		FIRM: NCA	
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:	
ADDITIONAL REMARKS: Assoc. with AGT C4-1 Confirmation Samples							
COC REV 3/99						TEMP: 6.7	
						PAGE 1 OF 1	



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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/26/01 17:56. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106081



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMC4107SL	M106081-01	Soil	06/26/01 13:40	06/26/01 17:56
01AMC4108SL	M106081-02	Soil	06/26/01 13:45	06/26/01 17:56
01AMC4109SL	M106081-03	Soil	06/26/01 13:50	06/26/01 17:56
01AMC4110SL	M106081-04	Soil	06/26/01 13:55	06/26/01 17:56
01AMC4111SL	M106081-05	Soil	06/26/01 14:00	06/26/01 17:56
01AMC4112SL	M106081-06	Soil	06/26/01 14:05	06/26/01 17:56
01AMC4113SL	M106081-07	Soil	06/26/01 14:10	06/26/01 17:56
01AMC4114SL	M106081-08	Soil	06/26/01 14:15	06/26/01 17:56
01AMC4115SL	M106081-09	Soil	06/26/01 14:20	06/26/01 17:56
01AMC4116SL	M106081-10	Soil	06/26/01 14:25	06/26/01 17:56
01AMC4117SL	M106081-11	Soil	06/26/01 14:30	06/26/01 17:56

C.O.C. # 117

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

1 of 11



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC4107SL (M106081-01) Soil					Sampled: 06/26/01 Received: 06/26/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
Surr: 1-Chlorooctadecane	87.2 %	50-150							
Surr: Triacontane	81.4 %	50-150							
01AMC4108SL (M106081-02) Soil					Sampled: 06/26/01 Received: 06/26/01				
Diesel Range Organics	705	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
Surr: 1-Chlorooctadecane	102 %	50-150							
Surr: Triacontane	93.0 %	50-150							
01AMC4109SL (M106081-03) Soil					Sampled: 06/26/01 Received: 06/26/01				
Diesel Range Organics	223	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
Surr: 1-Chlorooctadecane	85.2 %	50-150							
Surr: Triacontane	83.9 %	50-150							
01AMC4110SL (M106081-04) Soil					Sampled: 06/26/01 Received: 06/26/01				
Diesel Range Organics	239	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
Surr: 1-Chlorooctadecane	88.3 %	50-150							
Surr: Triacontane	95.1 %	50-150							
01AMC4111SL (M106081-05) Soil					Sampled: 06/26/01 Received: 06/26/01				
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
Surr: 1-Chlorooctadecane	87.1 %	50-150							
Surr: Triacontane	83.6 %	50-150							
01AMC4112SL (M106081-06) Soil					Sampled: 06/26/01 Received: 06/26/01				
Diesel Range Organics	1900	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
Surr: 1-Chlorooctadecane	102 %	50-150							
Surr: Triacontane	85.1 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

Diesel Hydrocarbons (C10-C25) per AK102
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMC4113SL (M106081-07) Soil

Sampled: 06/26/01 Received: 06/26/01

Diesel Range Organics	1140	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
<i>Surr: 1-Chlorooctadecane</i>	99.0 %	50-150							
<i>Surr: Triacontane</i>	88.4 %	50-150							

01AMC4114SL (M106081-08) Soil

Sampled: 06/26/01 Received: 06/26/01

Diesel Range Organics	2330	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
<i>Surr: 1-Chlorooctadecane</i>	83.4 %	50-150							
<i>Surr: Triacontane</i>	84.1 %	50-150							

01AMC4115SL (M106081-09) Soil

Sampled: 06/26/01 Received: 06/26/01

Diesel Range Organics	2340	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
<i>Surr: 1-Chlorooctadecane</i>	83.4 %	50-150							
<i>Surr: Triacontane</i>	83.8 %	50-150							

01AMC4116SL (M106081-10) Soil

Sampled: 06/26/01 Received: 06/26/01

Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/26/01	06/27/01	0106092	
<i>Surr: 1-Chlorooctadecane</i>	100 %	50-150							
<i>Surr: Triacontane</i>	96.0 %	50-150							

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMC4107SL (M106081-01) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.0762	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/26/01	0106094	
Toluene	ND	0.305	"	"	"	"	"	"	
Ethylbenzene	ND	0.305	"	"	"	"	"	"	
Xylenes (total)	ND	0.609	"	"	"	"	"	"	
Naphthalene	ND	3.05	"	"	"	"	"	"	

Surr: 4-BFB 90.9 % 50-150

01AMC4108SL (M106081-02) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.100	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/26/01	0106094	
Toluene	ND	0.400	"	"	"	"	"	"	
Ethylbenzene	ND	0.400	"	"	"	"	"	"	
Xylenes (total)	ND	0.800	"	"	"	"	"	"	
Naphthalene	ND	4.00	"	"	"	"	"	"	

Surr: 4-BFB 88.1 % 50-150

01AMC4109SL (M106081-03) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.0740	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/26/01	0106094	
Toluene	ND	0.296	"	"	"	"	"	"	
Ethylbenzene	ND	0.296	"	"	"	"	"	"	
Xylenes (total)	ND	0.592	"	"	"	"	"	"	
Naphthalene	ND	2.96	"	"	"	"	"	"	

Surr: 4-BFB 96.6 % 50-150

01AMC4110SL (M106081-04) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.0784	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/26/01	0106094	
Toluene	ND	0.314	"	"	"	"	"	"	
Ethylbenzene	ND	0.314	"	"	"	"	"	"	
Xylenes (total)	ND	0.627	"	"	"	"	"	"	
Naphthalene	ND	3.14	"	"	"	"	"	"	

Surr: 4-BFB 95.0 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC4111SL (M106081-05) Soil					Sampled: 06/26/01 Received: 06/26/01				
Benzene	ND	0.0733	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/26/01	0106094	
Toluene	ND	0.293	"	"	"	"	"	"	
Ethylbenzene	ND	0.293	"	"	"	"	"	"	
Xylenes (total)	ND	0.586	"	"	"	"	"	"	
Naphthalene	ND	2.93	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	92.5 %	50-150							
01AMC4112SL (M106081-06) Soil					Sampled: 06/26/01 Received: 06/26/01				
Benzene	ND	0.0656	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/26/01	0106094	
Toluene	ND	0.262	"	"	"	"	"	"	
Ethylbenzene	ND	0.262	"	"	"	"	"	"	
Xylenes (total)	ND	0.525	"	"	"	"	"	"	
Naphthalene	3.05	2.62	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	94.4 %	50-150							
01AMC4113SL (M106081-07) Soil					Sampled: 06/26/01 Received: 06/26/01				
Benzene	ND	0.0703	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/27/01	0106094	
Toluene	ND	0.281	"	"	"	"	"	"	
Ethylbenzene	ND	0.281	"	"	"	"	"	"	
Xylenes (total)	ND	0.562	"	"	"	"	"	"	
Naphthalene	ND	2.81	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	94.7 %	50-150							
01AMC4114SL (M106081-08) Soil					Sampled: 06/26/01 Received: 06/26/01				
Benzene	ND	0.0771	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/27/01	0106094	
Toluene	ND	0.308	"	"	"	"	"	"	
Ethylbenzene	ND	0.308	"	"	"	"	"	"	
Xylenes (total)	ND	0.617	"	"	"	"	"	"	
Naphthalene	ND	3.08	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	97.6 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project Manager: Anne Kranawetter

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06/28/01 23:50

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMC4115SL (M106081-09) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.0788	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/27/01	0106094	
Toluene	ND	0.315	"	"	"	"	"	"	
Ethylbenzene	ND	0.315	"	"	"	"	"	"	
Xylenes (total)	ND	0.630	"	"	"	"	"	"	
Naphthalene	ND	3.15	"	"	"	"	"	"	

Surr: 4-BFB 101 % 50-150

01AMC4116SL (M106081-10) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.0876	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/27/01	0106094	
Toluene	ND	0.351	"	"	"	"	"	"	
Ethylbenzene	ND	0.351	"	"	"	"	"	"	
Xylenes (total)	ND	0.701	"	"	"	"	"	"	
Naphthalene	ND	3.51	"	"	"	"	"	"	

Surr: 4-BFB 110 % 50-150

01AMC4117SL (M106081-11) Soil

Sampled: 06/26/01 Received: 06/26/01

Benzene	ND	0.135	mg/kg dry	50	1B BTEX/MTI	06/26/01	06/27/01	0106094	
Toluene	ND	0.541	"	"	"	"	"	"	
Ethylbenzene	ND	0.541	"	"	"	"	"	"	
Xylenes (total)	ND	1.08	"	"	"	"	"	"	
Naphthalene	ND	5.41	"	"	"	"	"	"	

Surr: 4-BFB 100 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC4107SL (M106081-01) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	90.8	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4108SL (M106081-02) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	83.2	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4109SL (M106081-03) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	87.5	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4110SL (M106081-04) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	88.5	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4111SL (M106081-05) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	83.7	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4112SL (M106081-06) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	86.7	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4113SL (M106081-07) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	80.0	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4114SL (M106081-08) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	86.4	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4115SL (M106081-09) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	85.6	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/28/01 23:50

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC4116SL (M106081-10) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	84.9	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	
01AMC4117SL (M106081-11) Soil					Sampled: 06/26/01 Received: 06/26/01				
% Solids	100	0.0100 % by Weight		1	Gravimetric	06/26/01	06/27/01	0106093	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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8 of 11



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Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106092 - 3545 ASE

Blank (0106092-BLK1)

Prepared: 06/26/01 Analyzed: 06/27/01

Diesel Range Organics ND 150 mg/kg wet

Surr: 1-Chlorooctadecane 19.9 " 23.4 85.0 50-150

Surr: Triacotane 19.5 " 23.4 83.3 50-150

LCS (0106092-BS1)

Prepared: 06/26/01 Analyzed: 06/27/01

Diesel Range Organics 1240 150 mg/kg wet 1250 99.2 75-125

Surr: 1-Chlorooctadecane 18.8 " 23.4 80.3 50-150

Surr: Triacotane 19.7 " 23.4 84.2 50-150

LCS Dup (0106092-BSD1)

Prepared: 06/26/01 Analyzed: 06/27/01

Diesel Range Organics 1300 150 mg/kg wet 1250 104 75-125 4.72 20

Surr: 1-Chlorooctadecane 25.0 " 23.4 107 50-150

Surr: Triacotane 19.9 " 23.4 85.0 50-150

Matrix Spike (0106092-MS1)

Source: M106081-01

Prepared: 06/26/01 Analyzed: 06/27/01

Diesel Range Organics 1140 150 mg/kg dry 1380 ND 82.6 60-140

Surr: 1-Chlorooctadecane 29.3 " 25.9 113 50-150

Surr: Triacotane 23.0 " 25.9 88.8 50-150

North Creek Analytical - Mobile Lab

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BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0106094 - MeOH Extraction

Blank (0106094-BLK1)

Prepared & Analyzed: 06/27/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

Surr: 4-BFB 2.41 " 2.50 96.4 50-150

LCS (0106094-BS1)

Prepared & Analyzed: 06/27/01

Benzene	2.17	0.0250	mg/kg wet	2.50	86.8	69-138
Toluene	2.33	0.100	"	2.50	93.2	53-151
Ethylbenzene	2.64	0.100	"	2.50	106	61-141
Xylenes (total)	7.33	0.200	"	7.50	97.7	62-141
Naphthalene	3.18	1.00	"	2.50	127	65-135

Surr: 4-BFB 2.68 " 2.50 107 50-150

North Creek Analytical - Mobile Lab

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06/28/01 23:50

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

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11 of 11

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106081 FINAL 06 28 01 2350.mdb Default Report (not modified)